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FEDERAL AVIATION AGENCY

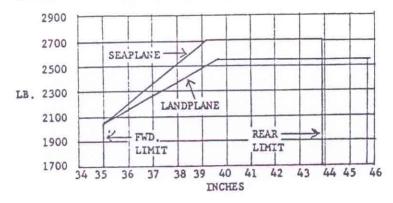
545 Revision 34 CESSINA 150 ACSI 1EJB 1800 1860 160E 1807 April 15, 1963

AIRCRAFT SPECIFICATION NO. 5A6

Manufacturer

Cessna Aircraft Company Wichita, Kansas

I - Model 180, 4 PCL-SM (Normal Category), Approved December 23, 1952 Continental 0-470-A (See item 106 for optional engine) Engine 80/87 minimum grade aviation gasoline Fucl For all operations, 2600 r.p.m. (225 hp.) Engine limits 122 m.p.h. (106 knots) True Ind. Airspeed limits Maneuvering Maximum structural cruising 160 m.p.h. (139 knots) True Ind. 184 m.p.h. (160 knots) True Ind. Never exceed 100 m.p.h. (87 knots) True Ind. Flaps extended (+39.5) to (+45.8) at 2550 lb. Landplane: C.G. range (+35.0) to (+45.8) at 2050 lb. or less Seaplane with item 209(a) (+39.3) to (+43.9) at 2700 lb. (+35.0) to (+43.9) at 2050 lb. or less Straight line variation between points given.



Empty wt. C.G. range Maximum weight

No. of seats Maximum baggage Fuel capacity

Cil capacity Control surface movements

None

Landplane: 2550 lb. 2700 lb. Seaplane: 4 (2 at +36, 2 at +70)

120 lb. (+95)

60 gal. total, 55 gal. usable (Two 30 gal. tanks in wings at +48)

See NOTE 1 for weight of unusable fuel 3 gal. (-15) (Includes 9 lb. unusable)

0° & 20° Takeoff Wing flaps 30° & 40° Down 15° Landing Up 20° Ailerons Up 1° 30° Stabilizer Down 8° 30' Up 25° Down 23° Elevators Left 24°

With stabilizer full down

Right 24° Rudder

Scrial Nos. eligible

604, 30000 to 32661, inclusive. Under the delegation option provisions of Part 410 of the Regulations of the Administrator, the Designated Manufacturer's Certification Representative (DMCR) is authorized to: issue airworthiness certificates for airplanea serial Nos. 30938 and up; and approve repairs and alterations of airplanes serial Nos. 604, 30000 to 32661, inclusive.

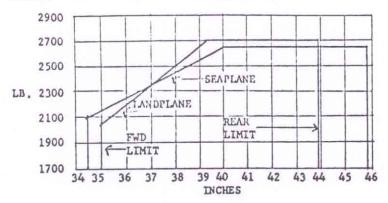
Required equipment

In addition to the pertinent required basic equipment specified in CAR 3, the following items of equipment must be installed: Landplane: items 1, 102, 103, 201, 202, 204, 401, 406.

items 1, 102, 103, 208, 401, 406. Skiplane: items 1, 102, 103, 209, 401, 406 Scaplane:

II - Model 180A, 4 PCL-SM (Normal Category), Approved December 17, 1956

Continental 0-470-K Engine 80/87 minimum grade aviation gasoline Fuel For all operations, 2600 r.p.m. (230 hp.) Engine limits 122 m.p.h. (106 knots) True Ind. Airspeed limits Mancuvering 160 m.p.h. (139 knots) True Ind. Maximum structural cruising 184 m.p.h. (160 knots) True Ind. Never exceed 100 m.p.h. (87 knots) True Ind. Flaps extended (+40.0) to (+45.8) at 2650 lb. C.G. range Landplane: (+34.5) to (+45.8) at 2100 lb. or less Seaplane with item 209(a) (+39.3) to (+43.9) at 2700 lb. (+35.0) to (+43.9) at 2050 lb. or less Straight line variation between points given



Empty wt, C.G. range

Maximum weight

No. of seats Maximum baggage

Fuel capacity

65 gal. total, 55 gal. usable (Two 32-1/2 gal. tanks in wings at +48)

None

Seaplane:

120-1b. (+95)

See NOTE 1 for unusable fuel.

2700 1ъ.

Oil capacity Control surface movements

3 gai. (-15) (Includes 9 lb. unusable)

0° & 20° Wing flaps Takeoff Landing 30° & 40° Ailerons Up 20° Down 15° Up 1° 30' 8° 30' Stabilizers Down Up 25° Down 23° Elevators

With stabilizer full down

Landplane: 2650 lb.

4 (2 at +36, 2 at +70)

Right 24° Left 24° Rudder

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32662 through 32999, 50001 through 50355. Type certificate issued
  Serial Nos. eligible
                             and DNCR authorized to issue airworthiness certificate under del-
                             egation option provisions of Part 410 of the Regulations of the
                             Administrator.
                           In addition to the pertinent required basic equipment specified in
  Required equipment
                             CAR 3, the following items of equipment must be installed:
                             Landplane: items 1, 102, 103, 201, 202, 204, 401
                                          items 1, 102, 103, 208, 401, 406
                             Skiplane:
                                          items 1, 102, 103, 209, 401, 406
                             Seaplane:
III - Model 180B, 4 PCL-SM (Normal Category), Approved August 22, 1958
                           Continental 0-470-K
                           80/87 minimum grade aviation gasoline
  Fuel
                           For all operations, 2600 r.p.m. (230 hp.)
  Engine limits
                                                               122 m.p.h. (106 knots) True Ind.
                           Maneuvering
  Airspeed limits
                                                               160 m.p.h. (139 knots) True Ind.
                           Maximum structural cruising
                                                               184 m.p.h. (160 knots) True Ind.
                           Never exceed
                                                               100 m.p.h. ( 87 knots) True Ind.
                            Flaps extended
                                                       (+40.0) to (+45.8) at 2650 lb.
                            Landplane:
  C.G. range
                                                        (+34.5) to (+45.8) at 2100 lb. or less
                            Seaplane with item 209(a) (+39.3) to (+43.9) at 2700 lb.
                                                        (+35.0) to (+43.9) at 2050 lb. or less
                            Straight line variation between points given
                            Refer to diagram under Section II
                            None
   Empty wt. C.G. range
                            Landplane: 2650 lb.
   Maximum weight
                                        2700 lb.
                            Scaplane:
                            4 (2 at +36, 2 at +70)
   No. of seats
                            120 15, (+95)
   Maximum baggage
                            65 gal. total, 55 gal. usable (Two 32-1/2 gal. tanks in wings at
   Fuel capacity
                              +48)
                              See NOTE 1 for unusable fuel
                             3 gal. (-15) (Includes 9 lb, unusable)
   Oil capacity
                                                                                     0° & 20°
                                                                    Takeoff
                            Wing Flaps
   Control surface
                                                                                    30° & 40°
                                                                    Landing
      movements
                                                                                    Down 15°
                                                                    Up 20°
                             Ailerons
                                                                                           80
                                                                                              30 1
                                                                    Up 1° 30'
                                                                                    Down
                             Stabilizer
                                                                                    Down 23°
                                                                    Up 25°
                             Elevators
                             With stabilizer full down
                                                                                    Left 24°
                                                                 Right 24°
                             Rudder
                             50356 through 50661. Type certificate issued and DMCR authorized
    Serial Nos. eligible
                               to issue airworthiness certificates under delegation option
                               provisions of Part 410 of the Regulations of the Administrator.
                             In addition to the pertinent required basic equipment specified in
    Required equipment
                               in CAR 3, the following items of equipment must be installed:
                               Landplane: items 1, 102, 103, 201, 202, 204, 401, 406.
Skiplane: items 1, 102, 103, 208, 401, 406.
Seaplane: items 1, 102, 103, 209, 401, 406
  IV - Model 180C, 4 PCL-SM (Normal Category), Approved July 8, 1959
              180D, 4 PCL-SM (Normal Category), Approved June 14, 1960
       Model 180E, 4 PCL-SM (Normal Category), Approved September 21,
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Model 180F, 4 PCL-SM (Normal Category), Approved June 25, 1962

Engine

Engine limits

Tucl

Continental 0-470-L or 0-470-R

*80/87 minimum grade aviation gasoline

*For all operations, 2600 r.p.m. (230 hp.)

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122 m.p.h. (106 knots) True Ind.
Airspeed limits
                        *Maneuvering
                                                           160 m.p.h. (139 knots) True Ind.
                        *Maximum structural cruising
                                                           184 m.p.h. (160 knots) True Ind.
                         *Never exceed
                                                           100 m.p.h. ( 87 knots) True Ind.
                        *Flaps extended
                                                    (+40.0) to (+45.8) at 2650 lb.
                         *Landplane
 C.G. range
                                                    (+34.5) to (+45.8) at 2100 lb. or less
                         *Seaplane with item 209(a) (+39.3) to (+43.9) at 2700 lb.
                                                    (+35.0) to (+43.9) at 2050 lb. or less
                          Straight line variation between points given
                          Refer to diagram under Section II
 Empty wt. C.G. range
                          None
                          Landplane: 2650 lb.
 Maximum weight
                                     2700 lb.
                          Seaplane:
                          4 (2 at +36, 2 at +70)
 No. of scats
                          120 lb. (+95)
 Maximum baggage
                         *65 gal. total, 55 gal. usable (Two 32-1/2 gal. tanks in wings at
 Fuel capacity
                            +48)
                          See NOTE 1 for ununable fuel
                          3 gal. (-15) (Includes 9 lb. unusable)
 Oil capacity
                                                                                0" & 20"
                                                                Takcoff
                          Wing flaps
 Control surface
                                                                               30° & 40°
                                                               Landing
   movements
                                                               Up 20°
                                                                               Down 15°
                          Ailerons
                                                                               Down 8° 45°
Down 23°
                                                               Up 1°
                          Stabilizer
                                                              Up 25°
                          Elevator with stabilizer full down
                                                            Right 24°
                                                                               Left 24°
                          Rudder
                          Model 1800: 624, 50662 through 50911
 Serial Nos. eligible
                          Model 180D: 18050912 through 18051063
                          Model 180E: 18051064 through 18051183
                          Model 180F: 18051184 and up
                          Type certificate issued and DMCR authorized to issue airworthiness
                            certificates under delegation option provisions of Part 410 of
                            the Regulations of the Administrator.
                          In addition to the pertinent required basic equipment specified in
 Required equipment
                            CAR 3, the following items of equipment must be installed:
                            Landplane: items 1 (0-470-L engine) or 2 (0-470-R engine), 102,
                                        103, 201, 202, 204, 406
                                        items 1 (0-470-L engine) or 2 (0-470-R engine), 102,
                            Skiplane:
                                        103, 208, 406
                                        itcms 1 (0-470-L engine) or 2 (0-470-R engine), 102,
                            Scaplane:
                                        103, 209, 406
Specifications pertinent to All Models
                        Front face of firewall
  Datum
  Leveling means
                        Upper door sill
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Certification basis

Models 180, 180A and 180B: Type Certificate No. 5A6 (CAR 3, Normal Category, effective November 1, 1949, Amendments 3-1 through 3-8 except paragraph 3.265 and 3.668 of Amendment 3-7) Models 180C, 180D, 180E and 180F: Type Certificate No. 5A6 (CAR 3, Normal Category, effective November 1, 1949, Amendments 3-1 through 3-12 except paragraph 3.265 of Amendment 3-7; CAR 3. effective May 15, 1956, paragraph 3.668 only, as amended by Amendment 3-3)

Production basis

Production Certificate No. 4

Equipment: A plus (+) or minus (-) sign preceding the weight of an item of equipment indicates not weight change when that item is installed.

Approval for the installation of all items of equipment listed herein has been obtained by the aircraft manufacturer except those items preceded by a double asterisk (**). This symbol denotes that approval has been obtained by someone other than the aircraft manufacturer. An item so marked may not have been manufactured under an FAA monitored or approved quality control system. Conformity must be determined if the item is not identified by a Form FAA-186, PMA or other evidence of FAA production approval.

Items of equipment listed apply to all models unless otherwise specified.

Propell	ers and Propeller Accessories		
	Hartzell constant speed propeller (Not eligible on the 0-470-R en	igine)	
	(a) Hub HC82XF-1, blades 8833	64 1b.	(-40)
	One of the following airplane flight manuals is required		
6	for Models 180, 180A and 180B;		
	Item 401(a)(1) through (a)(6) or 401(b)(1) through (b)(7) or	or	
	itcm 401(u)(1) or (u)(2) or 401(v)(1) or (v)(2)		
	Hub HC82XF-6, blades 8833		
	One of the following airplane flight manuals is required		
	for Models 180, 180A and 180B:		
	Item 401(a)(3) through (a)(6) or 401(b)(3) through (b)(7)		
	Diameter:		
	(With 0-470-A engine) Not over 88 in., not under 86 in.		
	(With 0-470-K, -L engine) Not over or under 88 in.		
	Pitch settings at 30 in. sta.: low 12°, high 24° or 28°		
and	(b) Propeller spinner, Hartzell HC82XF-1 or Cessna 0752006	4 1b.	(-40)
	(c) Propeller governor, Woodward 4M12-V,210065, 210105 or 210340	4 lb.	(-34)
2.	McCauley constant speed propeller		
	(a) McCauley hub 2A36C, blades 90M-8	63 lb.	(-40)
	One of the following airplane flight manuals is required		
	for Models 180, 180A and 180B:		
	Item 401(a)(2) through (a)(6) or 401(b)(2) through (b)(7) or	or	
	item $401(u)(1)$ or $(u)(2)$ or $401(v)(1)$ or $(v)(2)$		
	Diameter: Not over 82 in., not under 80 in.		
	Pitch settings at 36 in. sta.: low 10.5°, high 22°		2
	(b) Propeller spinner, Cessna 0752004	4 1b.	(-40)
and	(c) Propeller governor, Woodward 4M12-V, 210105, 210065,		
	210345 or 210452	4 16.	(-34)
	(d) Propeller governor, Garwin 34-828-01	4 16.	(-34)
3,	Hartzell constant speed propeller (seaplane installation	64 lb.	(-40)
	approved by Cossna DMCR) (Not eligible on the 0-470-R		
	engine installation)		
	(a) Hub HC82XF-1, blades 8433 (One of the following airplane		
	flight manuals is required for Models 180, 180A and 180B:		
	Item 401(a)(3) through (a)(6) or 401(b)(7) or 401(u)(1)		
	or (2) or 401(v)(1) or (2) Hub HGS2XF-o, blades 8433 (One of the following airplane		
	flight manuals is required for Models 180, 180A and 180B:		
	Item 401(a)(3) through (a)(6) or 401(b)(7)		
	Diameter: Not over 84 in., not under 82-1/2 in.		
	Pitch settings at 30 in. sta.: low 12°, high 24° or 28°		
and	(b) Propeller spinner, Hartzell HC82XF-1 or Cessna 0752006	4 1b.	(-40)
	(c) Propeller governor, Woodward 4M12-V, 210065, 210105 or	4 201	(-40)
2110	210340	4 1b.	(-34)
			/

4.	McCauley constant speed propeller	63 lb.	(-40)	
	(a) McCauley hub 2A36C, blades 90M-2			
	One of the following airplane flight manuals is required			
	for Models 180, 180A and 180B:			
	Item 401(a)(5) or (a)(6) or 401(b)(6) or (b)(7) or 401(u)(1) or (u)(2) or 401(v)(1) or (v)(2)			
	Diameter: Not over 88 in., not under 86 in.			
1	Pitch settings at 36 in. sta.: low 8°, high 22°			
and	(b) Propeller spinner, Cessna 0752004	4 lb.	(-40)	
	(c) Propeller governor, Woodward 210065, 210105, 210345	4 lb.	(-34)	
or	or 210452 (d) Propeller governor, Garwin 34-828-01	4 1b.	(-34)	
	Warrand and annual and Mat alterbla on the 0.470 B			
٥,	Hartzell constant speed propeller (Not eligible on the 0-470-R engine)			
	(a) Hub HC-A2XF-1 or BHC-A2XF-1, blades 8433 or 8833	64 15.	(-40)	
	(BHC-A2XF-1 eligible only on Continental 0-470-K, -L	€0£		
	engine)			
	One of the following airplane flight manuals is required			
	for Models 180, 180A and 180B: Item 401(u)(3) or 401(v)(3)			
	Diameter: (For 8833 blades) Not over or under 88 in.			
	(For 8433 blades) Not over 84 in., not under 82	in.		
	Pitch setting at 30 in. sta.: low 12°, high 24°	4.		
and	(b) Propeller spinner, Cessna 0752006	4 1b.	(-40)	
and	(c) Propeller governor, Woodward 4M12-V, 210065, 210105 or	4 lb.	(-34)	
	210340			
6.	McCauley constant speed propeller	E9 11	((0)	
	(a) McCauley hub 2A34C, blades 90A-8	52 16.	(-40)	
	Diameter: Not over 82 in., not under 80 in. Pitch setting at 36 in. sta.: low 10.5°, high 22°			
and	(b) Propeller spinner, Cessna 0752004	4 lb.	(-40)	
	(c) Propeller governor, Woodward 210065, 210105, 210345	4 1b.	(-34)	
	or 210452		() ()	
OT	(d) Propeller governor, Garwin 34-828-01	4 1b.	(-34)	
			ra consev	
7.	McCauley constant speed propeller			
	(a) McCauley hub 2A34C, blades 90A-2	52 lb.	(-40)	
	Diameter: not over 88 in., not under 86 in.			
	Pitch setting at 36 in. sta.: low 10.5°, high 22°			
	(b) Propeller spinner, Cessna 0752004	4 1b.	(-40)	
and	(c) Propeller governor, Woodward 210065, 210105, 210345 or 210452	4 lb.	(-34)	
or	(d) Propeller governor, Garwin 34-828-01	4 1b.	(-34)	
	and Engine Accessories - Fuel and Oil Systems			
	Starter, Delco-Remy 1109668 or 1109471	14 16.	(-4)	
	Carburetor air filter	1 15.	(-15)	
	Engine oil cooler, Continental No. C8520912 Winterization kit, Cessna dwg. 0750105	3 1b.	(-33)	
	(Item 401(c) required)	Neg, wt.	increase	
105.	Engine oil cooler (Continental 537084) with adapter	7 1b.	(-33)	
100.	Engine (applies to Model 180 only) (a) Continental 0-470-J with the following limitations:	No sectors	ă	
	Fuel 80 minimum grade aviation gasoline	No weight	change	
	Engine limits: For all operations 2550 r.p.m. (225 hp.)			
	One of the following airplane flight manuals is required:			
	Item 401(a)(4) through (a)(6) or 401(b)(5) through (b)(7)			

the second second second second		
106. Engine (applies to Model 180 only) continued or (b) Continental 0-470-K with the following limitations: Fuel: 80/87 minimum grade aviation gasoline Engine limits: For all operations, 2600 r.p.m. (230 hp.) Installation per Cessna dwg. 0750200 Airplane Flight Manual item 401(a)(6) c 401(b)(7) is required when this engine is installed.	No weight o	hange
**107. 18 gal. auxiliary fuel tank installed in accordance with Javelin Aircraft Co., 9175 E. Douglas, Wichita, Kansas, installation instructions dated September 15, 1955, and dwg. 782-1 and 787-for landplanes, and dwg. 782-1, 782-2 and 787 for scaplanes. See NOTE 1 for data on unusable fuel. Item 401(t) required when this tank is installed. This installation not eligible on aircraft equipped with item 402.	24 lb.	(+99)
108. Engine oil cooler, Modine (Continental No. 631095)	5 1b.	(-33)
Landing Gear		
201. Two main wheel-brake assemblies, 6.00-6, Type III (a) Goodyear model LF6H3D (oF6HBD also eligible) Wheel assembly No. 511960S	13 lb.	(+22)
Brake assembly No. 9530839 or (b) Goodyear model CL6NBM (castering) Wheel assembly No. 9530375, No. 9530376	34 lb.	(+22)
Brake assembly No. 9530368, No. 9530369 (c) Goodyear wheel and brake assembly Wheel assembly No. 9532111	16 lb.	(+22)
Brake assembly No. 9532113 202. (a) Two main wheel 6 ply-rating tires, 6.00-6 Type III	17 lb.	(+22)
(with regular tubes)	29 lb.	(+22)
or (b) Two main wheel 4 ply-rating tires, 8.00-6 Type III (c) Two main wheel 4 ply-rating tires, 7.00-6 Type III	19 lb.	(+22)
(with regular tubes)		()
or (d Two main wheel 6 ply-rating tires (tubeless) 6.00-6, Type III, Sidewall inflatable	15 lb.	(+22)
204. Tail wheel 8" Type I pneumatic	3 1b.	(+260)
(a) Goodyear wheel No. 510622 with 6 ply-rating tire (b) Goodrich wheel No. B-3-166AP with 6 ply-rating tire	3 lb.	(+260)
208. Skis		
(a) Federal A-3500A. Installed in accordance with Federal dwg. 11R0909	84 16.	(+16)
or (b) Federal AWB2500A wheel-ski, Federal installation dwg. 11R889. Eligible with hydraulic conversion on ground and in flight Note: weight and balance of aircraft shall be checked with ski in retracted and extended	108 lb. Retracted (+14.5)	Extended (+18.5)
positions. Placard required: "Do not extend or retract skis while in motion on the ground."		
or**(c) Wesco, Western Aircraft Equipment Co. dwg. 11 and 148		(
(1) AS-2750	92 lb.	(+15)
(2) A-30	85 1b.	(+14) (+17)
or**(d) Woychik R-lA, Woychik Aircraft Equipment (Middleton, Wisc dwg. 1 thru 5 (35 p.s.i. tire pressure required)	., 30 10.	(+17)
209. Two floats	315 16.	(+50)
(a) Edo 44-2425 per Cessna dwg. 0742110 One of the following airplane flight manuals is required	313 10.	(+30)

209.	(a)	for Models 180, 180A and 180B:				
or	(b)	Item 401(b)(1) through (b)(7) or 401(v)(1) or Edo 249-2870 per Cessna dwg. 0742113		378	1b.	(+46)
		Limits: C.G. range (+40.2) to (+43.9) at 2820 1 (+35.0) to (+43.9) at 2125 1	lb. lb. or less			
		Straight line variation between points given Maximum weight 2820 lb.				
		Additional required equipment, item 601 One of the following airplane flight manuals	is required			
(2)		for Models 180, 180A and 180B:	- (-) (2)			
210	Tuo	Item 401(b)(4) through (b)(7) or 401(v)(1) or wheel fairings, Cessna dwg. 0741003 (Cannot b	r (V)(Z) be used with	1	1b.	(+22)
	it	cem 202(b)).				
	i	wheel pants, Cessna dwg. 0441143 (Cannot be utem 202(b)).	used with		1b.	(+22)
213.	Fede	eral AT-3500A tail ski taker model L-19 tandem gear with item 202(a)	installed	4	1b.	(+259)
**214.	0:	n accordance with A. W. Whitaker, P. O. Box 18 regon, installation instructions and dwg. CTG- ctober 11, 1952. When this item is installed	811, Portland, -5, dated			
**215.	Gei	aformation in the airplane flight manual does sse safety gear according to St. Louis Machine and 2 and instructions dated May 5, 1953 (re-	e Co. dwg.	12	1b.	(+20)
	O S i	ctober 8, 1953). May be used with item 210 on t. Louis Machine Co. conversion kit is install nstructions dated February 4, 1954. Not eligi	r 211 when led per			
**216.	Two	tems 201(b), 208, 209 or 214 installed. "no drag" wheel fenders per Liquid Tool Co., ox 299, Morrow, Ohio, dwg. 105		8	1b.	(+23)
**217.	Amp	hibian gear, Edo 289-2700, per Cessna dwg. 07	42115.	Use	actual v	veight
	L	imitations same as for seaplane except as fol-	lows:	and	balance	change
	A	irspeed limits (TIAS):	m.p.h. (red li	100		
			-164 m.p.h. (ye		arc)	
			130 m.p.h. (gre			
			100 m.p.h. (whi	te a	arc)	
			m.p.h. m.p.h.			
			m.p.h.			
	C	.G. range (+3	8.3) to (+43.9)			
		Str. b	6.0) to (+43.9) aight line vari ctween above			
	M	aximum weight 285 irplane flight manual item 401(o) is required	0 lb.			
1 218.	Two		increase	8	16.	(+20)
l	(heavy duty) per Cessna dwg. 0741001-5 & 6				
Electr	ical	Equipment				
7272	Gen	tery, Reading R-33 or Cessna 0712604, 12v., 3	3a.	28	16.	(+114)
	(a)	Dclco-Remy 35A (1101892)		7202	1Ъ.	(-5)
		Delco-Remy 50A (1101895)			16.	(-5) (+22)
		landing lights, G.E. 4509			1b.	(+32) (-1)
		tage regulator, Delco-Remy 1118704 ating beacon (Cessna dwg. 0700031)			1b.	(+217)

Interi	or Eq	uinment (Model 180 Landplane)		
401.	(a)	(1) FAA Approved Flight Manual (Model 180 Landplane)		
		dated December 43, 1934		
		(2) Revision A dated September 15, 1953		
		(3) Revision B dated March 3, 1954		
		(4) Revision C dated August 26, 1954		
		(5) Revision D dated January 7, 1955		
		(1) Design F dated September 43, 1900		
	(b)	(1) FAA Approved Flight Manual (Model 180 Seaplane)		
		dared December 23, 1932		
		(2) Revision A dated September 15, 1953		
		(3) Revision B dated March 3, 1934		
		(4) Revision C dated May 14, 1954		
		(5) Revision D dated August 20, 1954		
		(6) Revision E dated January /, 1993		
		(T) T :- (T) C dated September (1), 1900		
	(c)	Til in-round Supplement No. I dated April 10, 1999, to		
		Tertificat Manual, Pertinent to Item to		
	(d)	Think Vanual Supplement for Lear	05/	
	1-7	L2B Autopilot, dated February 26, 1953, or November 29, 1	724	
	(e)	The Teachers of		
	(f)	The Print American Flight Manual Supplement Lot Dear Day		
		Autopilot with Approach Coupler, dated either because 2.	9	
		1953, or November 29, 1954		
	(2)	Deleted		
	44.5	more than the second of		
	(i)	FAN Approved Flight Manual Supplement dated March 17,		
		pertinent to item 407(b)		
	(i)	Deleted		
		m 1 1		
	(0)	A Flight Manual Supplement dated may 10,		
	1	1955 or January 16, 1959 (Model 100, 1807 and 1808).		
		n item 217 im installed.		
	(p)	TOTAL ASSESSED ASSESSED ASSESSED ASSESSED TOTAL		
		ARCON dated February 10, 1955. Required when item 407(d)	х.	
		i- i-stalled		
	**(q)	Javelin, FAA Approved Airplane Flight Manual Supplement		
		dated May 20, 1955. Required when item 410 is installed	*	
	(T)) Deleted		
	**(t)	Flicht Manual Supplement dated		
		November 1/, 1955. (Pertinent to address)		
			ar 19 1956	
	(u))(1) Cessna DMCR Approved Airplane Flight Manual dated Octob	EL 19, 1990	
		(2) Revision A dated August 22, 1958		
		(3) Revision B dated January 21, 1959	er 19 1956	
	(v)(1) Cessna DMCR Approved Airplane Flight Manual dated Octob	EL 17, 1750	
		(2) Revision A dated August 22, 1930		
		(3) Revision B dated January 21, 1959.		
	(w) FAA Approved Flight Manual dated January 25, 1955.		
		Required when item 604 is installed.	20 1b.	(+75)
140	2. St	ewart-Warner 979-B-1 cabin heater installation	5 1b.	(+18)
40	3. Bl	ind flying kit, Cessna dwg. 0700006	2	()
40	4. Fl	are installation	18 16.	(+99)
	(a) Cessna dwg. 0511007	18 1b.	(+117)
	(P) Cessna dwg. 0511007-1	: 20 20 12 2 3.	13 NO. 17 P. 17 Sept. 1

406. Stall warning indicator, Cessna dwg. 0511231A		stowed lb.	location) (+75)
407. Automatic pilot			
**(a) (1) Lear L2B installed according to Lear dwg. 73918 (Model 180 only) Placard required near automatic pilot controller in full view of pilot: "Do not use autopilot	46	16.	(+103)
below 300' above terrain except during approach when autopilot not to be used below 150' above terrain." (Required only with Airplane Flight Manual Supplements dated prior to November 29, 1954). Servo slip clutch stall torque settings in inlb. (plus zero minus five): rudder 50; aileron 25; elevator 20.			
Servo drum pitch diameters for all three axes are 1.375 in.	8(8)		
Item 401(d) required.	2	76	(11/2)
(2) Model 2203C altitude control Model 1350A-1 approach coupler amplifier		1b.	(+143)
Model 937A controller		1b.	(+97) (+17)
Item 401(f) required	-	TO.	(+11)
(b) Javelin A-2 or A-3 according to Cessna dwg. 0770002,			
Rev. A or Javelin dwg. 726, Revision A, and instruc-			
tions dated June 15, 1954. Item 401(1) required.			
(Model 180 only)			
**(c) Deleted November 26, 1957. Now covered by Supplemental			
Type Certificate SA1-106.			
(d) Lear ARCON Model A, Lear dwg. 703437 (Model 180 only)	12	1b.	(+96)
Item 401(p) required.		10.	(170)
408. Centerline camera installation, Cessna dwg. 07100001.	Use	actual	wt. change
**409. Fairbanks Aircraft Service Model FAS-1 scat. Instal-		1b.	(+70)
lation to be in accordance with Fairbanks Aircraft		10.	()
Service Instructions.			
**410. Javelin Rudder Trim System according to Javelin dwg. 720 and instructions dated June 30, 1955. Item 401(q) required.		16.	(+123)
Miscellaneous (Not listed above)			
601. Rudder return springs, Cessna dwg. 0310196-10 and -11	Neg	ect wt	. change
602. Stabilizer abrasion boots, Cessna dwg. 0332136-5, installed per Cessna dwg. 0732000		1b.	(+206)
603. Woychik retractable aircraft lifting handles, Woychik Aircraft Equipment (Middleton, Wisc.) dwg. 50 and 50A	1	16.	(+172)
**604. Ross Control System conversion kit model 9R100. Install in accordance with Ross (F.W.Ross, 719 N. Melborn Ave., Dearborn, Nich.) dwg. 9R100 thru 9B112 on dwg. list dated August 12, 1954, and installation instructions dated August 9. 1954. Placard required on instrument panel: "Equipped with Ross Control System - see Flight Manual Supplement". Item 401(w) required (Model 180 only)	-	actual lance (wt. and hange
NOTE 1 Company which and belong where the late of			

NOTE 1. Current weight and balance report including list of equipment included in certificated empty weight, and loading instructions when necessary, must be in each aircraft at the time of original certification and at all times thereafter (except in the case of operators having an approved weight control system). The certificated empty weight and corresponding C.G. location must include unusable fuel at 30 lb. at (+48) on Models 180, 180E and 180F, and 60 lb. at (+48) on Models 180A, 180B, 180C and 180D. When item 107, 18 gal. auxiliary fuel tank is installed, an additional 3 lb. unusable fuel at (+99) must be included.

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NOTE 2. A. The following placards must be displayed in front of and in full view of the pilot:

(1) On Models 180, 180A and 180B:

(a) "This airplane must be operated as a normal category airplane in compliance with the Flight Manual."

(b) 'No acrobatic maneuvers, including spins, approved."

(c) "Both tanks on for takeoff and landing."

(d) As seaplane: "Retract water rudder during takeoff and landing."

(e) When item 208(b) is installed: "Do not extend or retract skis while in motion on the ground,"

(2) On Models 180C, 180D, 180E and 180F:

(a) This airplane must be operated as a Normal Category airplane in compliance with operating limitations stated in form of placards, markings and manuals. No acrobatic maneuvers, including spins, approved.

Flight	Maneuv	ering	Load	Factors
Flaps		+3.		-1.5
Flaps	Down	+3.	5	

Maximum design weight, 2650 lb.

(b) "Both tanks on for takeoff and landing."

(c) "Flaps - Pull to extend

Retracted Takcoff 1st notch 10°

2nd notch 20°

Landing 3rd notch 30°

4th notch 40°11

(d) As seaplane or amphibian: "Retract water rudder during takeoff and landing."

(e) In addition to the above placards, the prescribed operating limitations indicated by (*) under Section IV, must be displayed by permanent markings, placards or reports (Weight & Balance Data).

B. The following placard must be displayed in the baggage compartment on all models: 'Maximum baggage 120 lb. For additional loading instructions, see Weight and Balance Data."

... END ...

